M. A. R. 57 (Rule 116) No. E

Measurement Book

1st and final

494403

Serial No.

Name of work Asphalting and Improvements to roads and drains @ From To

Name of Contractor of nature of Agency A-Sector, B-Sector, Judicial layout

Date of commencement of work Somesh Waranagara in WNO 041 of YST subdn. (Package - 07)

Date	Full description, etc, of work	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Work order NO, EE/YNKD/W-0 122 R 20-25 Date of Commencement WORK:- 18/09/2020						
	Est Cost Rs:- 3.00 Cr. 18/9/2020.						
	Name of Contractor:- M.S. Venkatesh (M.S.V. Constructions Company) No. 163, 5th Cross, 2nd Main. Prakash Nagara Bangalore-560021						
	Tender Notification:- No. BBMP/EE/YNK.D/EPMT-S/2019-20 dt 8/2/2019						
	Commissioner BBMP:- para No. PSR/G/8835/2020 Dt 11/3/20						
	Agreement NO:- BBMP/EE/YNKD/EPMT/AG/06/2020-21						
	JOB NO:- 004-19-000045. 18/09/2020.						
	TS/CE/YNK2/187/2018-19 Dt 07/01/2019.						
	AS/EE/YNKD/43/2020-21 Dt 28/08/2020.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(1)	Removing and refixing Stone slabs of drain & pointing in cm (1:3)						
	Pre-Measurements Recorded vide Excell Sheet Pg no (1) to (3)						
	Qty = - - - -					= 5114.97 Sqmt	
	Rate @ Rs 116-85/Sqmt					Rs 597684/-	
(2)	Earth work Excavation by manual Means in ordinary soil involving an average horizontal throw up to 2mt and an average Lift up to 1.50Mt, Excavated surface Levelled						

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

494404

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	and sides neatly dressed. the disposed Earth to be levelled neatly after breaking of clods complete as per specfn.						
	Measurements Recorded Vide Excell Sheet						
	fg No. (1) to (2)						
	Qty 2 - - - - = 2555.28 cum.						
	Rate @ Rs 244.84/ cum.					Rs 625634/-	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(3) providing and laying in position plain cement Concrete of cum mix (1:3:6) with opc cement @ 220kg/, with 40mm and down size graded granite Metal coarse aggregate @ 0.892 cum and fine aggregate @ 0.465 cum machine mixed concrete laid in layers not Exceeding 15cm thick well compacted in foundation including cost of all Materials ... etc, complete						
	pre-Measurements Recorded vide Excell sheet Pg No. (13) to (16)						

Rate @ Rs 5780.37/cum Qty = 1810.08 cum Rs 10460932/-

M. A. R. 57 (Rule 116) No. E 494405
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(4)	providing & laying in position reinforced cement concrete of design mix M20 with opc cement @320 kg/m³ with 20 mm & down size graded granite metal coarse aggregate 0.878 cum and fine aggregate @0.459 cum with super plasticizer @ 3 ltr confirming to IS 9103-1999 Reaffirmed-2008, machine mixed concrete laid in layers not exceeding 15 cm thick vibrated for all works in foundation & plinth .. etc., complete.						

Measurements Recorded vide Excel sheet
Sl no. (17) to (20)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty:	-	-	-	- 2	603.36 Cum	
	Rate @ Rs. 6297.87/cum.					Rs 37998.82/-	
(5)	providing and removing centering. shuttering struting propping etc, and removal of form work for vertical surface such as walls @ any thickness, including attached pilasters. buttresses plinth cills & string courses cost of all materials ... etc, complete						

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

494406

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurements Recorded vide Excell Sheet Fg No. (21) to (22)						
	Qty = - - - = 5028.00 Cgmt						
	Rate @ Rs. 398.42/Cgmt.					Rs 2003255/-	
(6)	providing TMT Fe 500 steel reinforcement for Rcc works including straightening, cutting bending hooking placing in position, lapping and/or welding wherever required, tying with binding wire & anchoring to the adjoining members						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	wherever necessary complete as per specification.						
	Measurements Recorded vide Excell sheet						
	Pg No. (23) to (24)						
	Qty = - - - - =					36.20 tonne	
	Rate @ Rs 78947.64/ tonne.					Rs 2858990/-	
(7)	providing & Laying precast drain Cover slab of 100 mm thickness M Cm (1:3) including cost of all materials, Labour Curing & transportation						

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

494107

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Loading, Unloading etc; Complete.						
	Measurements Recorded vide Excell Sheet						
	Pg No. (25) to (26)						
	Qty = + - - - = .2					1508.40 Kgm	
	Rate @ Rs 2199.54/Kgm =					Rs 3317786/-	
(8)	Removing & Resetting of Kerb stones						
	Measurements Recorded vide Excell Sheet						
	Pg No. (27) to (31)						

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty = - - - -				=	2139.20 Mt	
	Rate @ Rs 110.18/ Mt.					Rs 235697/-	
(9)	providing & fixing precast Solid Concrete kerbstones of size (450 × 150 × 500) mm made out of CC (1:2:4) & finished with CM (1:3) ... etc., Complete.						
	Measurements Recorded vide Speed Sheet Pg No. (32)						
	Qty =	-	-	-	=	2037.88 Nos	
	Rate @ Rs 490.79/ Nos.					Rs 99,99901/-	

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

494408

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(10)	Excavation for Road works. In all types of soil with hydraulic Excavator of 0.90 cum bucket Capacity. including cutting & Loading in tippers trimming bottom & side slopes in accordance with Side slopes requirements of lines grades & cross sections ... etc, Complete Measurements Recorded vide Excell sheet Pg No (33) Qty = - - - - = 72.00 cum						

Rate @ Rs 159.23/cum. Rs 11464/-

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(11) Construction of dry lean Cement Concrete Mix C.C (1:5:10) with OPC cement @ 160 kg, with 25 MM & down size graded granite Metal Coarse aggregates @ 0.86 cum and fine aggregates @ 0.58 cum sub-base over a prepared Sub-grade with (Coarge & fine aggregates Confirming to IS 383) Aggregate Cement ratio not Exceed (15:1) .. etc, complete.						
	Measurements Recorded vide Excell sheet Pg no. (34)						
	Qty.	-	-	-	= 54.00 cum		
	Rate @ Rs 3989.63/cum,					Rs 215440/-	

M. A. R. 57 (Rule 116) **No. E**
Measurement Book

494409

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(12)	Cement Concrete Pavement - Construction of un-reinforced dowel Jointed plain cement Concrete over a Prepared Sub base with 25mm & down size graded granite Metal Coarse aggregate with Super plasticizer @ 3Lt) Confirming to IS-9103,-1999 reaffirmed 2008, coarse & fine aggregates Confirming to IS 383) Mixed in a batching & Mixing plant... etc; Complete.						

Measurements Recorded vide Excell sheet Pg no. (35)

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty = -	-	-	-	=	49.50 Cum	
	Rate @ Rs 6149.95/cum.					Rs 303997/-	
(13)	Vaccum-De-watering with vacuum pump and section mat and Compaction with Skin floater clubbed with floating dine including Cost of generator ... etc, Complete.						
	Measurements Recorded vide Excell sheet Pg no. (36)					Rs 27244/-	
	Rate @ Rs 75.68/sqm Qty = - - - - = 360.00 sqm						

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

494410

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(14)	Cleaning the existing black topped surface with brooms, soft brushes & finally dusting with old gunny bags and or compressed air to receive bituminous treatment including cost of all materials, Labour Hire of Machineries ... etc, Complete.						
	Measurements Recorded vide Excell sheet Pg No. (37) to (38)						
	Qty =	-	-	=		3309.00 Sqm	
	Rate @ Rs 5.56/Sqmt.					Rs 18398/-	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(15) Excavation for road works in all types of soils with hydraulic Excavator of 0.90 cum bucket capacity including Cutting loading in tippers, trimming bottom and side slopes in accordance ~~with~~ with requirements of lines, grades & cross sections ... etc, complete						
	Measurements Recorded vide Excell sheet Pg No (39) to (40)						
	Qty = - - - -					= 328.00 Cum	
	Rate @ Rs. 145.79/cum.					Rs 47819/-	

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

Serial No. 494411

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(16)	providing & Laying spreading & compacting Crushed stone aggregates of granite [trap] bond H.B.M. wet Mix macadam specification including pre-mixing the material with water @ OMC in mechanical Mix plant Carriage of Mixed material ... etc, complete Measurements Recorded vide Excell sheet Pg no. (41) to (42)						
	Qty = -	-	-	-	-	276.00	Cum

Rate @ Rs 2107.14/-cum, Rs 581514/-

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(17) providing & applying primer @ the coat with SS bitumen emulsion on prepared surface of granular base such as WMM. including cleaning of road surface & spraying primer @ the rate @ the of 0.60 kg/sqm using mechanical means --- etc complete.						
	Measurements Recorded vide Ec cell Sheet Pg no. (43) to (44)						
	Qty =	-	-	-		= 1380.00 sqm	
	Rate @ Rs 37.84/sqmt.					Rs 522/19/-	

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

494412

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(18)	providing and laying Bitumenous Macadam, on prepared surface with crushed coarse aggregates as per design mix formula for base/ Binding course including loading of aggregates, with FE loader. hot mixing of stone aggregates - - etc, complete Measurements Recorded vide Excell sheet Pg nos. (45) to (46) Qty =	-	-	-	=	69.00 cum	

Rate @ Rs 6550.49/cum. Rs 451983/-

MEASUREMENT BOOK

Date 1	Full description, etc. of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
(19)	providing & applying stack Coat using 80/100 grade bitumen (VG 10) on the prepared black topped surface of road @ 2.50 Kgs/10 Sqmts heating bitumen in boiler fitted with spray set (Excluding cleaning of surface) ... etc complete						
	Measurements Recorded vide Excell Sheet Pg No. (47) to (48)						
	Qty = - - - -					= 3309.00 Sqm	
	Rate @ Rs 15.58/Sqmt						
						Rs 51554/-	

M. A. R. 57 (Rule 116) **No. E**
Measurement Book

494413

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(20)	providing and laying bituminous Concrete using 40/60 TPH Capacity HMP With mechanical paver Grade-II (300mm to 450mm) crushed aggregates of specified grading pre-mixed. With 5.4% VG 30 grade bituminous binder. & filler transporting the hot mix to work site... etc complete Measurements Recorded vide Excell Sheet Pg No. (49)						Rs 1146066/-

Rate @ Rs 8656.09/cum

Qty = .132.40 cum

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(21)	Road ~~Road~~ marking with HOT applied thermo plastic compound with Reflectorising Glass beads on bituminous surface - providing & laying of hot applied thermoplastic compound 2.50mm thick including Reflectorising glass beads @ 250 gm/sqm area ... etc, complete Measurements Recorded vide Excell Sheet Pg No. (50) to (51) Qty = - - - = 136.65 sqm Rate @ Rs ~~477/43~~/sqmt					Rs 65240/-	

M. A. R. 57 (Rule 116) No. E
Measurement Book

494414

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
5/01/2021.					Total Rs = 27873087=00 +12% GST = 3344770=00 Rs. 27849846/- 31217000/- 12% GST = 3341981=00 31191827=00	Ramanjaneyulu. 5/01/2021	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-64

27873087.24
3344770.47
31217857=00.

Sketch

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions					Reference to last Measurement
		Number	Length	Breadth	De		
1	2	3	4	5	6	7	8

Ramesh carried ASPHALT WORK,

ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜ.ಜ.ಎಂ.ಕ. ಬೆಂಗಳೂರು-106

M. A. R. 57 (Rule 116) No. E

Measurement Book

494415

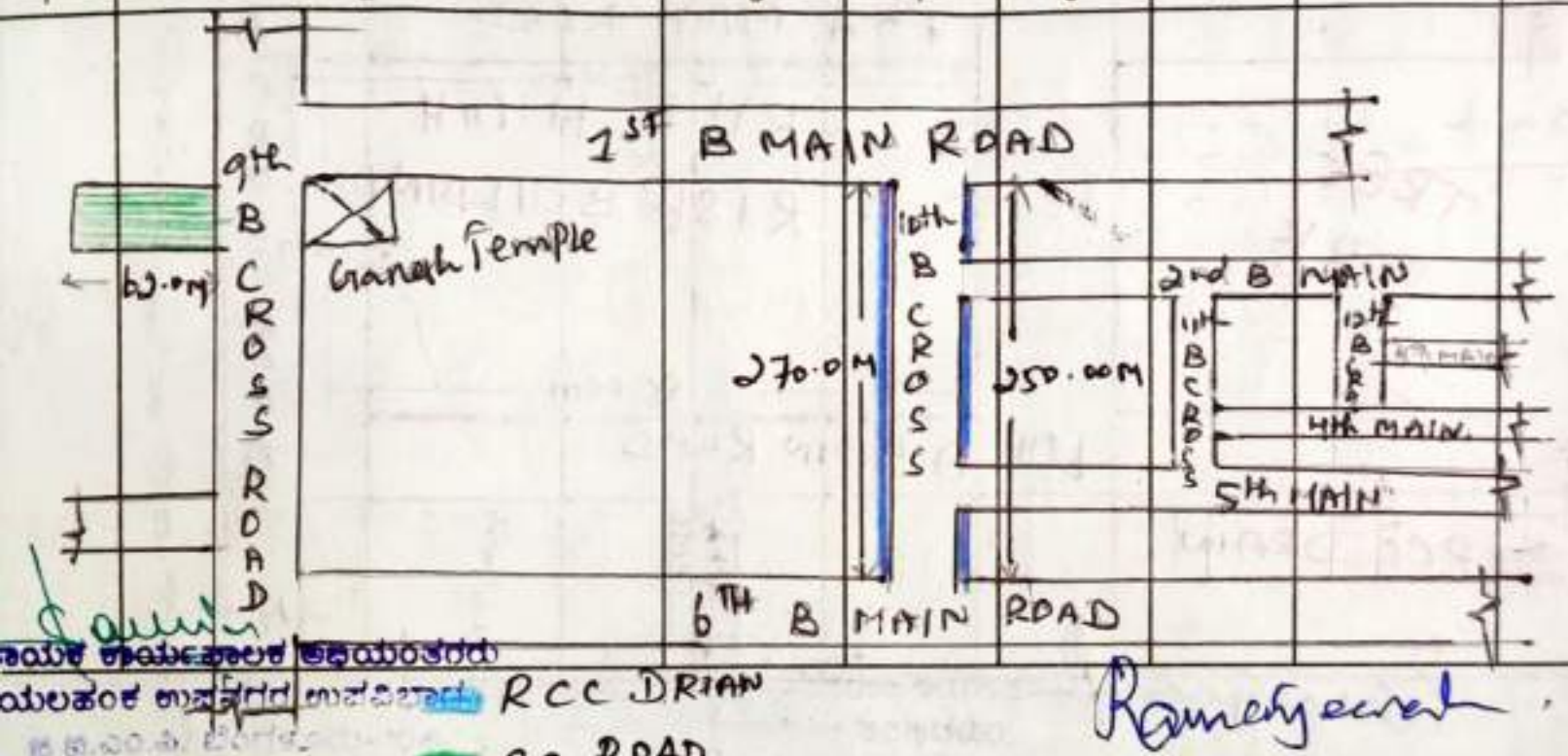
Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

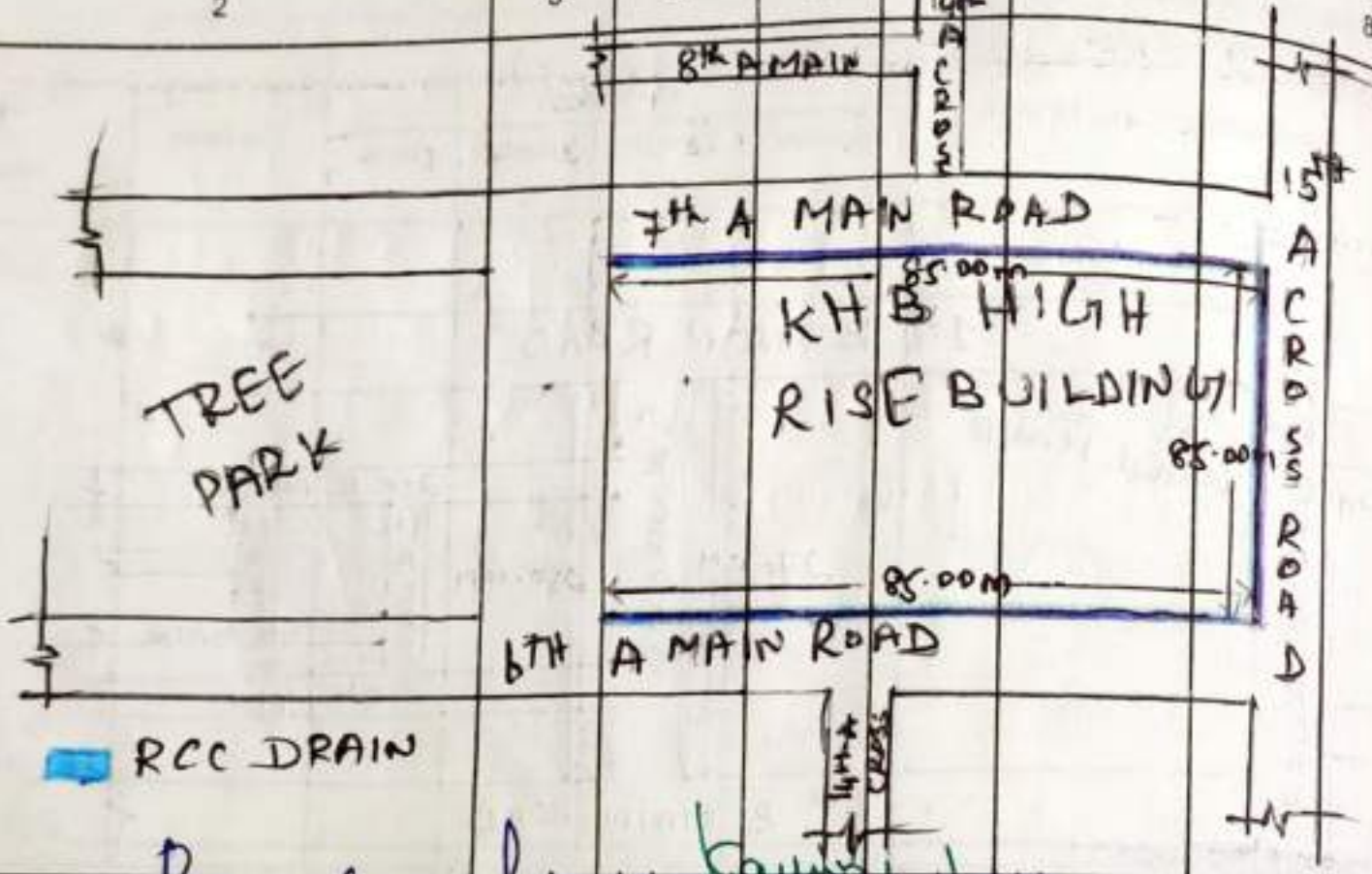
Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8



ಕಾರ್ಯಕಾರಿ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ ಉಪವಿಭಾಗ

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



Ramesh

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

494116

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Recovery:-						
	Item No. (1) Removing & Refixing of stone & slabs drains						
	stock measurements of stone slabs						
	7 MB wide Road =	25.	1.20	0.45	- =	13.50 Cum	
	B-Sector. Cross Road =	45	1.30	0.60	- =	35.10 Cum	
	& Main Road =	90	1.40	0.45	- =	56.70 Cum	
	= 120 x 1.30 x 0.60 - =					93.60 Cum	
						Qty = 198.90 Cum	

MEASUREMENT B

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty = 198.90 gmt Qty of Stone slabs herein Stacked @ site & Received from the Contractor (M.S. Venkatesh) and Issued to the M.S. & Construction of = (198.90 gmt) Rate 116.85/gmt = Rs 23241/- Contractor Bill for the Amount in this Bill. (Twenty three thousand two Hundred forty one only.)						

Ramanjaneya AE
5/01/2021

Sahayaka Karyanirvahaka Abhiyanthe
Yelahanka Upanagara Upavibhaga
B.B.M.P.

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

494417

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Gross Amt =Rs 31191828=00			SBR No 134	08-01-2021.		
	TDS =Rs 1559592=00						
	CGST = Rs 311919=00						
	SGST = Rs 311919=00						
	IT = Rs 935755=00						
	IC = Rs 311919=00						
	CBF = Rs 31192=00						
	Recovery =Rs 3782552=00						
	Net Amt = Rs 38405480=00						
	Net Amt = Rs 27351280=00						

Audited & Admitted for Rs..... 31191828=00

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..... 27351280=00 By Cheque

and Rs..... 3840548=00 By adjustement

Acctt. Supdt.
yelahanka Division
BBMP

Exe. Engineer
yelahanka Division
BBMP